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NCEA 30 Day Outlook 10-18-2017.docx

**National Center for Environmental Assessment
Weekly Report for October 18th, 2017**

Notables listed below and 30-day Outlook attached.

PUBLIC ACTIVITIES

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University of Kentucky Superfund Research Program External Advisory Council (UK-SRP). On October 22-24th, Beth Owens will be participating in the University of Kentucky Superfund Research Program External Advisory Council meeting held in Lexington, KY. Beth Owens serves as an external advisory member for the UK-SRP. The UK-SRP strives to reduce the negative health and environmental impacts of chlorinated organic compounds found at Superfund sites. The meeting will focus on providing feedback on the new research goals and direction of the program.

Peer Review of Draft NTP Approach to Genomic Dose-Response Modeling Expert Panel Meeting. On October 23- 25th, Jeff Gift and Allen Davis will be presenting at the upcoming “Peer Review of Draft NTP Approach to Genomic Dose-Response Modeling Expert Panel Meeting” at the National Institute of Environmental Health Sciences (NIEHS) facility in Research Triangle Park, NC. The purpose of this public meeting is to provide NTP with scientific input on its proposed approach for “using BMDEExpress software to perform gene and pathway-level genomic dose-response modeling as part of Tox21 Phase 3 and in vivo screening level studies.” Jeff’s and Allen’s presentation will be given by Jeff during “Session 3: Fitting Features to Dose-Response Models” and will cover traditional approaches for “Interpreting the results of EPA dose-response models.”

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WITHIN EPA

Office of Water Support. Mike Wright continues to provide support to the Office of Water to discuss comments related to the Six-Year Review 3 Technical Support Document for Disinfectants/Disinfection Byproducts Rules.

OLEM Human Health Regional Risk Assessment Forum (OHHRAF) Toxicity Workgroup. On October 19th, The Superfund Technical Support Center management team will be participating in the October meeting of the OLEM Human Health Regional Risk Assessment Forum Toxicity Workgroup. Discussion topics include International Sources of Toxicity Values and ATSDR Substance Priority List.

BenMap-CE Presentation. On October 19th, Tom Luben and Jason Sacks will deliver a presentation to the ORD Geospatial Working Group entitled “Overview of BenMAP-CE and how it is used in benefits analyses”. The presentation will provide an overview of how EPA uses this tool to estimate health and economic impacts associated with changes in air quality, and will emphasize the mapping capabilities of the software.

National Homeland Security Research Center (NHSRC) Support. Dan Petersen is supporting NHSRC in their review of the Provisional Advisory Level Document: Provisional Advisory Level Values for Chemical Warfare Nerve Agents, GA, GB, GD, GE, GF, Chlorosoman and Chlorosarin. The document is currently in Agency Review and will likely be released for external peer review in the near future.

PRODUCTS AND PUBLICATIONS

“Application of epigenetic data in human health risk assessment”. A paper has been published by Current Opinions in Toxicology by Ila Cote, Shaun McCullough, Ron Hines (NHEERL) and John Vandenberg titled “*Application of epigenetic data in human health risk assessment*” (DOI: 10.1016/j.cotox.2017.09.002). In this paper, the authors identify opportunities for application of epigenetic data to support health risk assessment. Pragmatic paths to the consideration of epigenomic data in the toxicological evaluation of chemicals are illustrated. The authors propose that epigenomic modifications that differ significantly from background and lead to pathogenic alterations in gene expression or cell signaling may be suitable for use in the derivation of a point of departure useful for informing risk assessment. Find the paper at <https://doi.org/10.1016/j.cotox.2017.09.002> .

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